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The invention relates to a process for producing a fiber composite material containing fibers with a high hot strength, in particular based on carbon, silicon, boron and/or nitrogen, a pressing compound being produced from fibers, a binder and, if appropriate, fillers and/or additives, which is then pressed in a press mold to form a green body. Various pressing compounds are produced, which contain fibers of different qualities and/or in different proportions, and the press mold is filled with the various pressing compounds in a number of successive steps. The invention also relates to a fiber composite material of this nature.